

34. The peristaltic pump according to claim 22, wherein the actuator is configured to engage the biased plunger to lift the biased plunger away from the tube and disengage the biased plunger to allow a spring to generate a force from the biased plunger against the tube.

35. The peristaltic pump according to claim 22, wherein the peristaltic pump is configured such that a force of the biased plunger applied to the tube by the biased plunger is produced by a spring and not the actuator.

36. A method for pumping fluid, the method comprising:  
biasing a plunger toward a tube;  
opening a first valve in a first stage;  
moving the plunger away from the tube in the first stage;  
closing the first valve in a second stage;  
moving the plunger toward the tube in the second stage;  
disengaging the actuator from the plunger in the second stage; and  
moving the plunger toward the tube to discharge fluid.

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